

*AMENDMENTS TO THE CLAIMS*

This listing of claims replaces all prior versions, and listings, of claims in the application.

1.-46. (Canceled)

47. (Previously Presented) A nucleic acid molecule encoding an amino acid sequence consisting of a sequence selected from the group consisting of SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4 and SEQ ID NO: 5.

48. (Previously Presented) A vector comprising the nucleic acid molecule of claim 47.

49. (Previously Presented) The vector of claim 48, wherein the vector is selected from the group consisting of *E. coli* plasmid, *Listeria* vector, orthopox virus, avipox virus, capripox virus, suipox virus, vaccinia virus, baculovirus, human adenovirus, SV40 virus and bovine papilloma virus.

50. (Previously Presented) The vector of claim 49 further comprising a nucleotide sequence encoding at least one HLA class I molecule.

51. (Canceled)

52. (Canceled)

53. (Previously Presented) A kit comprising

(a) a CEA agonist peptide selected from the group consisting of SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5,

(b) a vector comprising a gene encoding CEA, and

(c) an immunostimulatory molecule selected from the group consisting of interleukin 2, interleukin 6, interleukin 12, interferon gamma, tumor necrosis factor alpha, GM-CSF, B7.1, B7.2, ICAM-1, LFA-3, CD72, and cyclophosphamide.

54. (Previously Presented) The kit according to claim 53, wherein said agonist peptide is SEQ ID NO: 2.

55. (Canceled)

56. (Previously Presented) The vector of claim 50, wherein the HLA class I molecule is HLA-A2.

57. (Canceled)

58. (Canceled)

59. (Canceled)

60. (Previously Presented) The nucleic acid molecule of claim 47, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 3.

61. (Previously Presented) The nucleic acid molecule of claim 47, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 4.

62. (Previously Presented) The nucleic acid molecule of claim 47, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 5.

63. (Previously Presented) The vector of claim 48, wherein the wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 3.

64. (Previously Presented) The vector of claim 48, wherein the wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 4.

65. (Previously Presented) The vector of claim 48, wherein the wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 5.

66. (Previously Presented) The kit of claim 53, wherein the CEA agonist peptide is SEQ ID NO: 2.

67. (Previously Presented) The kit of claim 53, wherein the CEA agonist peptide is SEQ ID NO: 3.

68. (Previously Presented) The kit of claim 53, wherein the CEA agonist peptide is SEQ ID NO: 4.

69. (Previously Presented) The kit of claim 53, wherein the CEA agonist peptide is SEQ ID NO: 5.

70. (Currently Amended) The kit of claim ~~32~~, 53, wherein the immunostimulatory molecule is B7.1.

71. (Currently Amended) The kit of claim ~~32~~, 53, wherein the immunostimulatory molecule is ICAM-1.

72. (Currently Amended) The kit of claim ~~32~~, 53, wherein the immunostimulatory molecule is LFA-3.

73. (Currently Amended) The kit of claim ~~32~~, 53, wherein the immunostimulatory molecule is GM-CSF.

74. (New) The nucleic acid molecule of claim 47, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 2.

75. (New) The vector of claim 48, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 2.

76. (New) An isolated host cell comprising the vector of claim 48.

77. (New) The host cell of claim 76, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 2.

78. (New) The host cell of claim 76, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 3.

79. (New) The host cell of claim 76, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 4.

80. (New) The host cell of claim 76, wherein the nucleic acid molecule encodes the amino acid sequence of SEQ ID NO: 5.